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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/472,989	12/28/1999	SHUNSUKE INOUE	684.2946	9449
5514	7590 11/20/2002			
FITZPATRICK CELLA HARPER & SCINTO			EXAMINER	
	EFELLER PLAZA RK, NY 10112		ABDULSELAM, ABBAS I	
			ART UNIT	PAPER NUMBER
			2674 DATE MAILED: 11/20/2002	J À
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary			INOUE ET AL.				
		09/472,989					
		Examiner Abbas I Abdulselam	Art Unit				
	The MAILING DATE of this communication appe						
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠	Responsive to communication(s) filed on 22 August 2002.						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠	Claim(s) 1 and 3-7 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1 and 3-7</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s)							
2) Notic	ee of References Cited (PTO-892) ee of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Response to arguments

Claim Rejections 35 U.S.C. 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Omae et al. (USPN 5963283) in view of Honda et al. (USPN 5147127) and Mastsumoto et al. (USPN 5694190).

Regarding claims 1 and 7, Omae teaches about a liquid crystal panel and projection display device for enlarging and projecting to a screen (176). Omae teaches images displayed on a small liquid crystal panel (177) are enlarged and projected using project lens (174). In connection to liquid crystal panels, Omae teaches an LCD layer with sides of substrate (11, 12) as shown in Fig 1 and further teaches specific electrode pattern on a circuit board, and electrode substrates in pixel display area. See column 1, lines 9-15, 20-23, column 2, lines 6-15, and column 4, lines 13-21, and Fig 21. However, Omae does not teach about a projection holder fixed on the circuit board for holding the display panel that is connected with the electrodes. Honda on the other hand teaches a liquid crystal apparatus with holding unit (40), a holding plate (41), and a display panel (30). See Fig 1. Honda also teaches supply terminals (48a, 48b) contacted to the

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outer bottom (13a,13b) acting as electrodes and receiving terminal. Fig. 3 and Column. 5, lines 17-27.

Therefore, it would have been obvious to one having skill in the art at the time of the invention was made to modify Omae's projection display device to include Honda's holding unit to better support Omae's projection display apparatus. One would have been motivated in view of the suggestion in Honda that the holding unit of the apparatus is equivalent of the desired holder.

Omae has been described above. However, Omae does not disclose a scenario where the first electrodes of the display panel and the second electrodes of the circuit board are electrically connected by way of a connector such that first electrodes are brought into contact with a connector. Mastsumoto on the other hand teaches a connector (4) having a conductive contact (4a), and having a contact with the signal input electrode portion (1a)when the liquid crystal panel (1) and the circuit board (5) are connected together. See col. 4, lines 38-54 and Fig 1.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Omae's projection display device to include Matsumoto's electrode connections. One would have been motivated in view of the suggestion in Matsumoto that the input electrode, the connector along with the conductive contact area equivalently provide the desired configurations of the electrodes with a connector. The use of input electrode, connector and conductive contact area helps function LCD device as taught by Matsumoto.

Regarding claim 3, Honda teaches a lighting unit (20) along with fluorescent lamp (11) whose light reflected from the reflecting film. See Fig 1 and col. 1, lines 26-34.

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Regarding claim 4, Honda teaches a pair of wires (71a, 71b). See Fig 7.

Regarding claim 5, See Fig 1.

Regarding claim 6, Omae teaches a liquid crystal panel (177) with respect to the formation of an optical images. Omae teaches the formation as a change in light scattering is converted to a change in brightness on the screen (176). Column 18, lines 44-55.

Conclusion

2. The prior art made of record and not relied upon is considered to applicant's disclosure.

The following arts are cited for further reference.

U.S. Pat. No. 5,936,850 to Takahashi et al.

U.S. Pat. No, 5,933,018 to Komatsu

U.S. Pat. No. 5,888,076 to Itoh

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Abbas Abdulselam** whose telephone number is (703) 305-8591. The

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examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard Hjerpe** can be reached at (703) 305-4709.

Any response to this actions should be mailed to:

Commissioner of patents and Trademarks

Washington, D.C. 20231

or faxed to

(703) 872-9314

Hand-delivered responses should be brought to Crystal park II, crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or preceding should be directed to the Technology center 2600 Customer Service office whose telephone number is (703) 306-0377.

Abbas Abdulselam

Examiner

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